BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

Name of Work: Estimate for Repair and Maintenance of Roads and Drains in Ward No. 11 (Kuvempunagara).

Job Code:

Estimated Cost: Rs: 20.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Repair and Maintenance of Roads and Drains in Ward No. 11 (Kuvempunagara).**

									Estimate Cost:	**2000000.00**
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 143 / Item No. 19.1, PWD SR 2018-19**	Cum							
	For RCC Drains								
	Vyshnavi Layout 1st Main		1	200.00	1.00	1.00	200.00		
	Culverts		6	5.00	1.80	1.20	64.80		
							264.80	243.88	**64579.00**
	Basic Rate	130.00							
	Area Weightage @6%	7.80							
	Total	**137.80**							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		243.88							
2	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6 with with OPC cement @ 220kgs, with crushed 40mm** and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications MORTH Specification No. 2100 **Item No. 27.18 Page No. 222, PWD SR 2018-19**	cum							
	Culverts		6	5.00	1.80	0.15	8.10		
	Vyshnavi Layout 1st Main		1	200.00	1.00	0.15	30.00		
	Basic Rate	5115.00					**38.10**	5421.90	**206574.00**
	Area Weightage @ 6%	306.90							
	Total	**5421.90**							
3	Providing laying palin / reinforced cement concrete for side drains using M 20 nominal mix concrete with OPC at 300 kgs with 20 mm and down size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed well compacted for walls and bottom including cenmtering shuttering form work etc. complete as per approved drawing and design MORTH Specification No. 1500,1700,2200 Wall & Bottom thickness 15cm **Page No. 271, Item No. 37.59.2, PWD SR 2018-19**	Cum							
	Bottom Concrete								
	Vyshnavi Layout 1st Main		1	200.00	0.90	0.15	27.00		
	Side Wall								
	Vyshnavi Layout 1st Main		2	200.00	0.15	0.60	36.00		
	Basic Rate	6670.00					**63.00**	7070.20	**445423.00**
	Area Weightage @ 6%	400.20							
	Total	**7070.20**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
4	Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. **TMT bars Fe 500 Page No. 229 / Item No. 28.8.2, PWD SR 2018-19**	Tonne							
				63.00	0.060	T/cum	**3.78**	90596.08	**342453.00**
	Basic Rate	85468.00							
	Area Weightage @ 6%	5128.08							
	Total	**90596.08**							
5	Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6, edges of stones** chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. **Page No. 255, Item No. 34.9, PWD SR 2018-19**	cum							
	Culverts		6x2	5.00	0.60	0.45	16.20		
			6x2	5.00	0.45	0.45	12.15		
	Basic Rate	5483.00					**28.35**	5811.98	**164770.00**
	Area Weightage @ 6%	328.98							
	Total	**5811.98**							
6	KSRB 15.1.3 Providing **ruled pointing 20 mm deep** to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications **Page No. 115 / Item No. 15.3, PWD SR 2018-19**	Sqm							
			6x2	5.00		0.90	54.00		
	Basic Rate	142.00					**54.00**	150.52	**8128.00**
	Area Weightage @ 6%	8.52							
	Total	**150.52**							
7	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page. No. 255 / Item No.34.11 of PWD SR 2018-19**	Cum							
	Ramp								
	Vyshnavi Layout 1st Main		1	200.00	0.30	0.10	6.00		
	Culverts								
	Coping Concrete		6	5.00	1.50	0.10	4.50		
	Ramp		6x2	5.00	1.00	0.15	9.00		
	Basic Rate	5283.00					**19.50**	5599.98	**109200.00**
	Area Weightage @ 6%	316.98							
	Total	**5599.98**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
8	Providing **precast slab of 100 mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate.	Sqm							
	Vyshnavi Layout 1st Main		1	86.00	0.90		77.40		
							77.40	2337.00	**180884.00**
9	Providing **precast slab of 250mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - (Data rate Approved).	Sqm							
			9x6	1.50	0.60		48.60		
							48.60	5418.00	**263315.00**
	Sub Total								**1785326.00**
	GST @ 12%								**214239.00**
	Miscellaneous and other Charges	L/S							**435.00**
								Total	**2000000.00**
Rupees Twenty Lakh(s) Only									

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2018-19.
3 This work included under 2021-21 POW Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

15/11

Administrative Approval
Accorded For 20.00 Lakhs only
Head of A/C POW
CER NO: 83 Dt: 13/12/21

AA

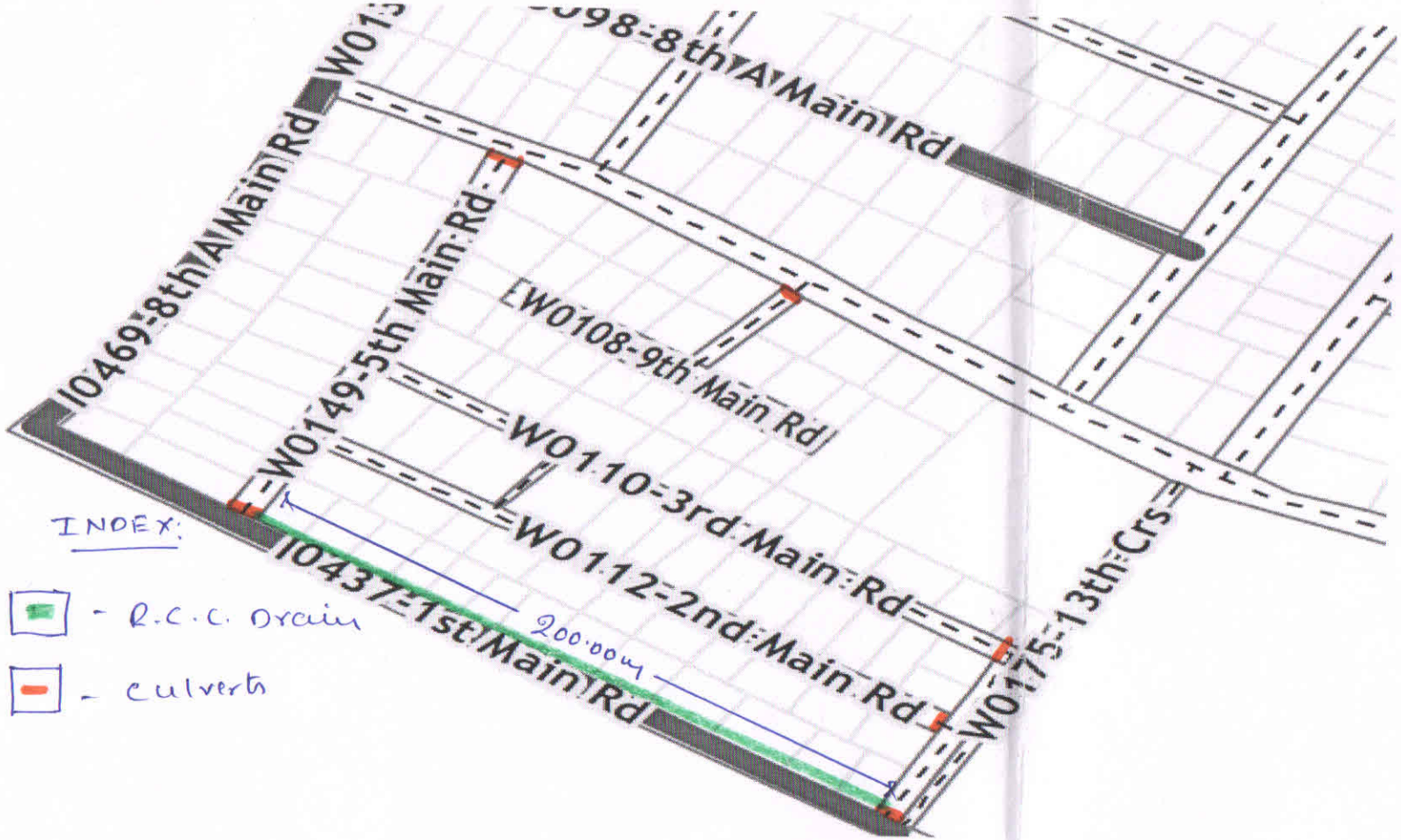
EE (BTP)

TECHNICAL SANCTION
Accorded For Rs. 20.00 Lakhs only
Head of A/c. POW
Div. Ref. No. 46 Date 15/02/22

AE 16/02

EE(BTP) 16/02

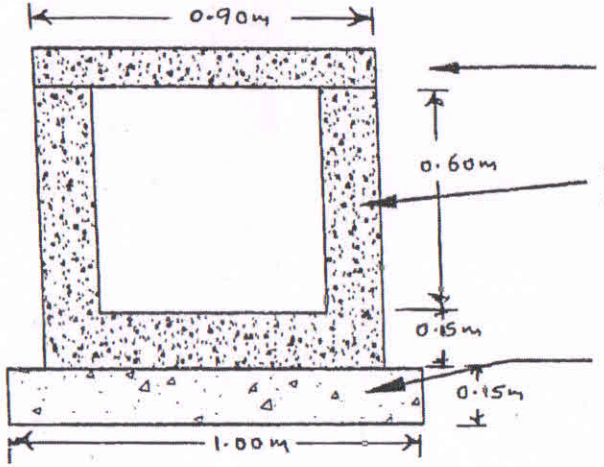
Name of Work: Improvements to Roads and Drains at Vyshanavi Layout in Ward No. 11, (Kuvempunagara).



Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP Bangalore - 97



Precost slab Thick.

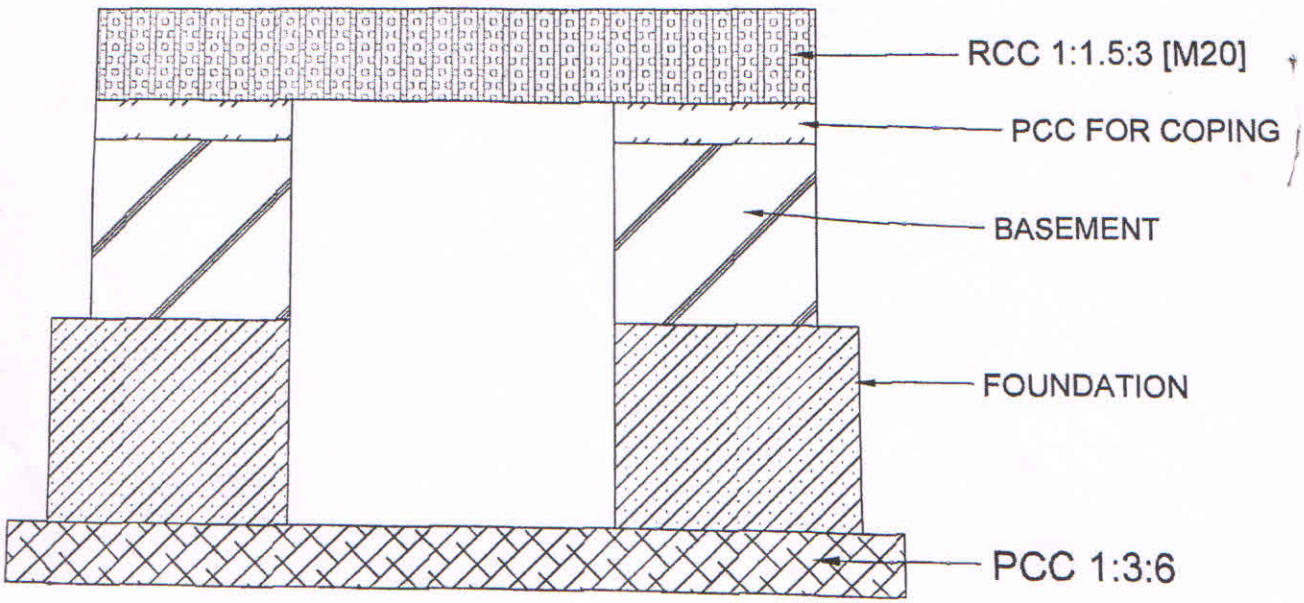
RCC WALL M-20 Thick 0.15.

PCC 1:4:8 Thick 0.15m.

CROSS SECTION OF CC DRAIN

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Scanned with CamScanner

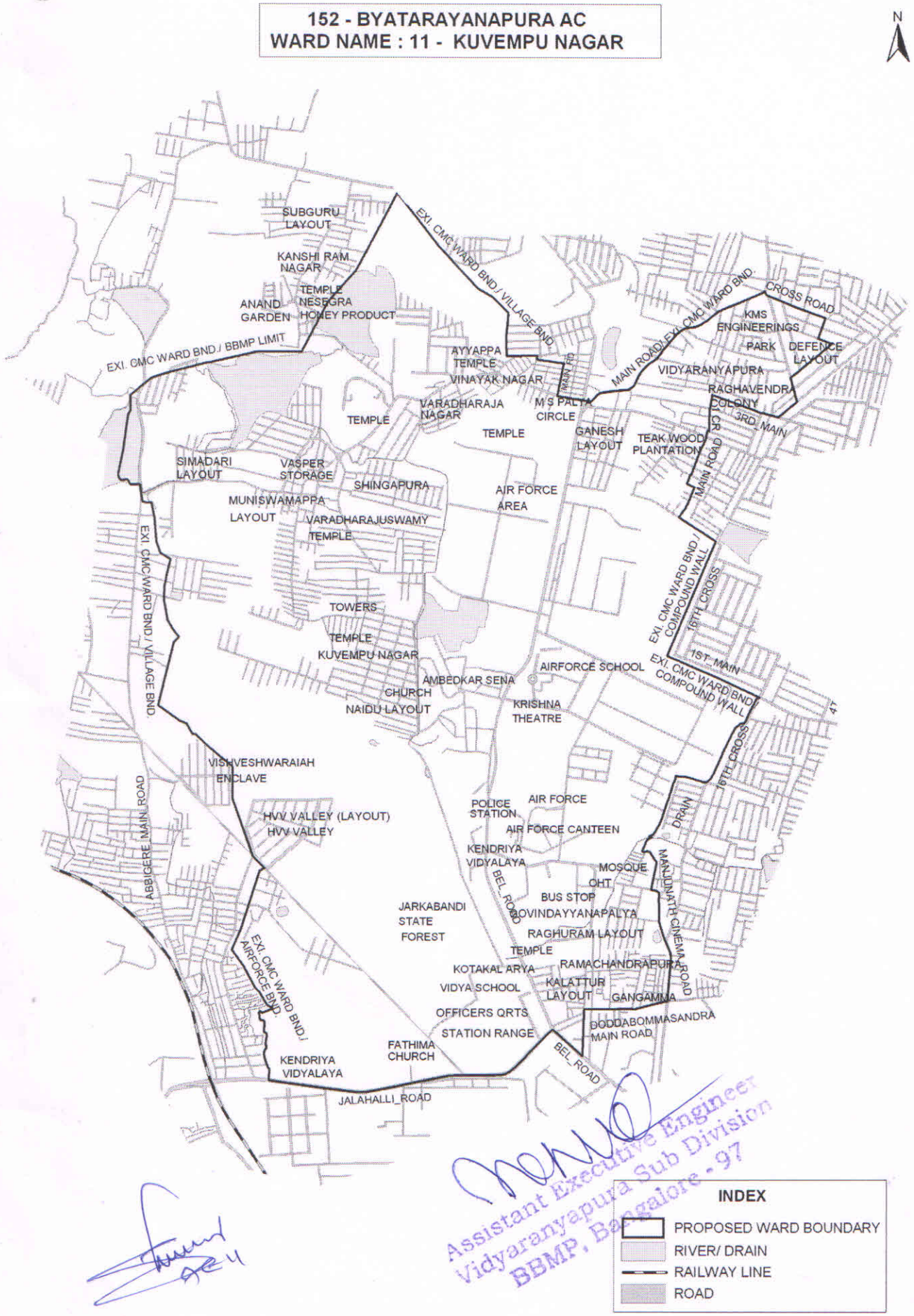


CROSS SECTION FOR CULVERT

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Scanned with CamScanner

152 - BYATARAYANAPURA AC
WARD NAME : 11 - KUVEMPU NAGAR



Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97